



Montana Department of Health and Environmental Sciences
MONTHLY ACTIVITIES REPORT OF THE AIR QUALITY BUREAU

September 1976

STATE DOCUMENTS

FEB 277

1. Highlights

Work on local agencies' contracts and budgets.

Review of Anaconda Aluminum conceptual control plan.

Review of Hoerner Waldorf permit renewal application

Planned meteorological study at Anaconda Aluminum Company at Columbia Falls.
Some equipment for the study installed.

Significant time spent on a total property inventory.

2. Ambient Air Quality Network

Standards Exceeded:

TSP* - Morton Res., Big Horn Co., 1 viol. fed. sec. std.
High School, Col. Falls, 4 viol. fed. sec. std.
High School, Col. Falls, 2 viol. fed. 24-hr. std.
High School, Col. Falls, 3 viol. MT 24-hr. std.
Courthouse, Missoula Co., 1 viol. fed. sec. std.
SO₂ - Post Office, Anaconda, 13 viol. MT 1-hr. std.
Post Office, Anaconda, 1 viol. MT 24-hr. std.
Post Office, Anaconda, 1 viol. fed. 24-hr std.
Post Office, Anaconda, 1 viol. fed. 3-hr. std.
Mill Creek, Anaconda, 3 viol. MT 1-hr. std.
Hiway Jct., Anaconda, 7 viol. MT 1-hr. std.
E. Stack, E. Helena, 2 viol. MT 1-hr. std.
Microwave, E. Helena, 3 viol. MT 1-hr std.

* Total Suspended Particulates

Air Stagnation Advisories:

No air stagnation advisories issued this month. Meteorological conditions remained good.

Laboratory Status:

Total determinations for month 226
Total samples for the month 226

Developments:

Fluoride samples from Garrison and vegetation samples from Ramsay collected.

Normal servicing and maintenance on ambient sampling equipment in Butte, Ramsay, and Anaconda areas.

Repairs made on several analyzers that were down.

Calibrated ozone monitors in Billings.

Wrote justification for EPA trailer to monitor in Butte.

Initiated auditing scheme for strip chart data. Wrote justification for the scheme.

Servicing and maintenance of SO₂ monitors in East Helena area.

3. Permits and Tax Credits

Construction Permits:

Application:

Hilde Construction Co., Inc., Teton Co., portable gravel crusher
Zook Brothers Construction Co., Musselshell Co., portable hot mix plant
Zook Brothers Construction Co., Musselshell Co., portable gravel crusher
Hilde Construction Co., Inc., Fergus Co., portable gravel crusher
Havre Day Activity Center Inc., Havre, foundry furnace for melting aluminum
Louisiana Pacific Corp., Missoula, baghouse, boiler modification and dryer exhaust cyclone
Empire Sand and Gravel Co., Inc., Treasure Co., portable gravel crusher
Empire Sand and Gravel Co., Inc., Big Horn Co., asphalt batch plant
Peter Kiewit Sons' Co., Custer Co., portable hot mix plant

Approved:

Portable Pavers, Inc., Prairie County, asphalt plant
Hilde Construction Company, Teton Co., portable gravel crusher
Zook Brothers Construction Co., Musselshell Co., portable hot mix plant
Zook Brothers Construction Co., Musselshell Co., portable gravel crusher
Peter Kiewit Sons' Co., Custer Co., portable hot mix plant

Tax Credits:

None

4. Variance Status

Current Variances:

Anaconda Aluminum Co., Columbia Falls, F⁻ and particulate, expires 7/1/77
The Anaconda Co., Anaconda, Particulate, expires 12/31/76
ASARCO, Inc., East Helena, SO₂, expires June 30, 1977

New or Renewed:

The Anaconda Co., Anaconda, SO₂, expired June 30, 1976 (renewal hearing continued)

5. Enforcement Action

Citations:

Safeway Store, Hamilton, rule 16-2.14(1)-S1420
ASARCO, E. Helena, fed. 3-hr and 24-hr. ambient air standards, S02
Meyer Construction Co., Billings, rule 16-2.14(1)-S1460
Dugdale Construction, Butte, rule 16-2.14(1)-S1460

Notices of Violation:

Public Utilities Dept., Billings, road dust
K-Mart Foods, Billings, incinerator, Excessive Visible Emissions and
Operation in Excess of Stated Hours
3 citizens, Billings, unpermitted open burning

Order for Corrective Action:

ASARCO, Inc., E. Helena, zinc fuming plant

Court Actions:

Clayton Berg, open burning, Helena. Legal Division has asked court to
set a date for trial.

6. Tepee Burner and Open Burning

Tepee Burner Status:

No. at Start 41
New Starts 0
Shutdowns 0
No. at End 41

Open Burning Permits:

Kalispell Office - 83	Sanders County - 44
Cascade County - 18	Yellowstone County - 13
Lake County - 26	Rest of State - 361
Missoula County - 187	Total Permits - 562

7. Source Tests Performed

Agency Source Tests:

U.S. Plywood, Bonner, boiler #1, particulate emission - 53.8 #/hr.
allowable 111.3 #/hr.

Non-Agency Source Tests:

None

8. Field Investigations:

Westmoreland Resources, Sarpy Creeks, inspection
Wolf Point Refinery, Wolf Point, inspection
MDU, Miles City, inspection
Hallett Minerals, Vananda, inspection
Holly Sugar, Sidney, inspection
Eastmont Forest Products, Ashland, inspection
Brand S Lumber, Livingston, tepee burner, inspection
Park Lumber, Livingston, tepee burner, inspection
Burkland Studs, Livingston, tepee burner, inspection
Willow Creek, Livingston, tepee burner, inspection
Yellowstone Pine, Belgrade, tepee burner, inspection
ASARCO, Inc., E. Helena, inspection
Stauffer Chemical, Butte, inspection
Gilman Excavating, Butte, batch plant, documented

9. Complaints

Bunstead Drive, Billings, road dust
Dugdale Construction, Butte, hot mix plant emissions, citation issued
Park Co., West of Livingston, road dust
ASARCO, Inc., E. Helena, SO₂ emissions, compliance program
Berkeley Pit, Butte, pollutants in general
Gilman Excavating Butte, batch plant dust, NOV issued
Meyer Construction Co., Billings, emissions, NOV issued

10. Data Processing Services

Ambient Data Summary:

Monthly report of August air quality data attached.

Emissions Inventory Status:

No sources received; none processed.

A workshop has been set up by Region VIII EPA for EIS/PER and CDHS to be held in Denver on December 1 and 2 (was rescheduled)

Prevention of Significant Deterioration:

The modeling analysis on the Northern Cheyenne Reservation redesignation proposal was completed and sent on to the project personnel.

Modeling:

Time spent on preparation for modeling analysis of Great Falls transportation plan.

11. Environmental Impact Statements

Agency Impact Determinations:

None

Other Agency EIS's Reviewed:

None

12. Status of Studies, Contracts and Reports

U.S. Plywood test report, complete
Anaconda Aluminum meteorological study started
Great Falls transportation study contract obtaining permission to locate
CO monitor pending.
Health Study Phase I - start delayed until November
Health Study Phase II - EPA trying to fund via a BOA grant
Area Source Emission Inventory, PEDCo contract-should be completed by
November 15
The Anaconda Company smelter particulate emission sampling report complete.

13. Schools and Training

None

14. Public Hearings and Meetings

Public Hearings:

September 24 Board of Health and Environmental Sciences Meeting
Missoula County rule amendments
Anaconda Copper - continuance on variance renewal hearing for SO₂
Report given on particulate emission study done at the Anaconda smelter

Meetings Attended:

Hoerner Waldorf permit renewal, Helena
EPA and AQB staff, smelter variance status, Helena
Legislative auditor, Helena
PER preparation, Helena
AQMA, Missoula
Anaconda Co. trial testimony, Butte
Anaconda Co. waste dumping expansion, Butte
Dept. Highways Env. Impact Group, Helena
EPA Scobey study, Helena
Dept. Highways, Helena
Public Presentation, Poplar River area studies, Poplar and Scobey
EPA, Helena
EPA, ASARCO, Helena
Data quality assurance, Helena

Intra-Staff Meetings:

AQB staff meetings (3)

15. Public Information Requests

Air Quality Rules - 7
General assistance - 7
Clean Air Act - 5

16. Fiscal Status

Grants Received:

None

Monthly Expenditures:

Program	Budget	Expenditures		Funds Remaining
		September	Year to Date	
0630	449,576	42,015	83,213	266,363
0631	74,400	6,587	6,587	67,813
0633	82,635	6,544	12,894	69,741

INDIANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMMARY OF AIR QUALITY DATA

MAHAT 1976

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Pollutants: Total Suspended Particulate Units: Micrograms/cubic meter

AUGUST	AREA	HIGH READING			ARITHMETIC AVERAGE		Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	% of State Total	
140	Site Location						
	Morton Res. Bldg. Horn Co.	148	708	295	61.3	8	
	Warren Ranch	63	146	146	28.1	8	
	Big Horn Co. Orchard Sch.	84	141	141	47.0	8	
	Billings	96	106	106	30.4	8	
	WFL Station	66	200	200	63.7	8	
	Billings	66	200	200	63.7	8	
	Grand Ave. School	85	199	199	59.1	8	
	Billings	47	108	108	31.2	8	
	Laurel St. Hl. Yellowstone Co.	69	124	219	35.6	8	
141	Hospital Roof						
	Great Falls	141	185	185	84.0	8	
142	Site Location						
	Great Falls	54	202	202	30.0	8	
	Tierney Rd.	51	173	173	53.5	8	
	Silver Bow Co. Hl. Bow Gun Rd. Butte						

Pollutants: Total Suspended Particulate Units: Micrograms/cubic meter

AUGUST	AREA	HIGH READING			ARITHMETIC AVERAGE		Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	% of State Total	
142	Site Location						
	Greensboro School Butte	94	299	308	90.1	8	
	Atkins	62	306	306	47.9	8	
	Butte	22	30	54	16.3	8	
	Richer Park	44	110	110	36.8	8	
	Butte	59	147	147	20.1	8	
	Highway Det. Dore Lodge Co. Windlimb Sch.	34	84	84	21.1	8	
	Craville Co. Minnowan	99	171	231	65.5	8	
	Jefferson Co. 212 Pacific St. LEC Co.	131	131	131	11.3	8	
143	Site Location						
	Lawe Road	59	104	104	27.6	8	
	Rosebud Co. Hl. Rosebud Co.	39	85	85	16.9	8	
	McKee	29	60	60	14.8	8	
	Rosebud Co. Lindsay (107342) Dawson Co.						

Pollutants: Total Suspended Particulate Units: Micrograms/cubic meter

AUGUST	AREA	HIGH READING			ARITHMETIC AVERAGE		Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	% of State Total	
144	Site Location						
	Port Peck	60	166	166	72.0	8	
	McDane Co.	43	49	49	17.4	8	
	Rowland	54	173	173	23.5	8	
	Butler	---	---	---	---	---	Hi-val not running in August
	Roosevelt Co. Littlefield Hl.	46	98	98	25.6	7	
	Billings	44	130	130	33.8	8	
	Scobey	30	38	38	13.3	8	
	Daniels Co.	138	254	254	63.3	8	
	Glendale	---	---	---	---	---	Hi-val not running in August
	Dawson Co.	139	234	234	90.7	8	
145	Site Location						
	Lindsay (107342)	36	125	125	47.2	8	
	Dawson Co. High School						
	Columbia Falls						
	Dahlman's Res.						
	Kalispell						
	Downard Res.						
	Kalispell						
	Sverdrup						
	Kalispell						

Pollutants: Total Suspended Particulate Units: Micrograms/cubic meter

AUGUST	AREA	HIGH READING			ARITHMETIC AVERAGE		Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	% of State Total	
144	Site Location						
	Cumby Res.	116	386	386	76.1	8	
	Minneola	94	176	176	34.3	8	
	Johnson Hill Rd. Minneola Co.	57	217	217	30.1	8	
	Frenchtown						
	Minneola Co.						

NATIONAL DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMMARY OF AIR QUALITY DATA

MARCH, 1976

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Pollutants: Miscellaneous Gaseous Data Units: Parts Per Million

Area	HIGH READING			ARITHMETIC AVER.			Comments
	Current Month	Year-to-Date	Running Year	Year-to-Date	% of Ave. of Data		
143 7th & Montana Billings	2.40	9.0	9.0	.51	7		
144 7th & Montana Billings	12.50	26.5	26.5	2.074	7		
145 7th & S. 27th Billings	---	---	---	---	---	Shutdown March 17, 1976	
146 7th & Montana Billings	5.4	7.80	30.0	2.768	8		
147 Laurel E. Conner Billings	---	---	---	---	---	Shutdown in August, 1976	
148 Colstrip	2.50	3.50	3.50	1.013	8		
149 7th & S. 27th Billings	1.60	2.00	3.40	1.589	8		
150 7th & Montana Billings	---	---	---	---	---	Instrument shutdown	
151 7th & Montana Billings	---	---	---	---	---		
152 Colstrip	0.44	0.00	0.00	0.043	8		

--- Data not available at time of report

Pollutants: Sulfur Dioxide Units: Parts Per Million

Area	HIGH READING			ARITHMETIC AVER.			Comments
	Current Month	Year-to-Date	Running Year	Year-to-Date	% of Ave. of Data		
140 East Stagh	0.19	0.44	0.44	0.011	8		
141 West Helena	0.38	1.08	1.08	0.014	8		
142 East Helena	0.25	1.68	1.68	0.011	8		
143 Saddle Mtn.	0.95	2.54	2.54	0.018	8	1 violation Mont. 1-hr standard	
144 East Helena	0.39	0.78	0.78	0.017	8	1 violation Mont. 1-hr standard	
145 Anaconda	0.25	0.79	0.79	0.014	8	1 violation Mont. 1-hr standard	
146 Elk Creek RR Co.	0.38	0.72	0.72	0.008	8	1 violation Mont. 1-hr standard	
147 Anaconda	0.07	0.15	0.15	0.006	8		
148 27th & Montana Billings	.66	.66	.66	0.029	5	81 violations MT 1-hr. standard	
149 Laurel L. Conner Billings	---	---	---	---	---		
150 Laurel Water Plant	0.0	0.02	0.02	0.00	8		
151 Colstrip	---	---	---	---	---		

--- Data not available at time of report

Pollutants: Miscellaneous Indicators Units:

Area	HIGH READING			ARITHMETIC AVER.			Comments
	Current Month	Year-to-Date	Running Year	Year-to-Date	% of Ave. of Data		
141 Eastfall - Tongue	18.20	28.20	28.20	18.05	8		
142 Mountain States Cascade Co.	16.91	37.73	47.73	19.17	8		
143 Fire Station #1 Cascade Co.	---	---	---	---	---		
144 Sulfation Rate	milligrams/1000 cu ft	---	---	---	---		
145 Truck Car Track Cascade Co.	0.033	0.220	0.220	0.054	7		
146 Phillips Ref. E. Cascade Co.	0.234	0.299	0.400	0.135	7		
147 Phillips Ref. N1 Cascade Co.	0.170	0.333	0.444	0.128	7		
148 Meramec Tower Jefferson Co.	0.075	0.40	0.40	0.276	8		
149 Bay 43 Jet.	0.74	1.10	1.10	0.566	7		
150 Bear Lodge Co.	---	---	---	---	---	Shutdown	
151 Elk Creek RR Co.	---	---	---	---	---	Shutdown	
152 Bear Lodge Co.	---	---	---	---	---	Shutdown	
153 Anaconda Airport	---	---	---	---	---	Shutdown	
154 Bear Lodge Co.	---	---	---	---	---	Shutdown	
155 Phillips Ref. E. Cascade Co.	---	---	---	---	---	Shutdown	
156 Phillips Ref. N1 Cascade Co.	---	---	---	---	---	Shutdown	
157 Bear Lodge Co.	---	---	---	---	---	Shutdown	
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312 Bear Lodge Co.	---	---	---	---	---	Shutdown	
313 Bear Lodge Co.	---	---	---	---	---	Shutdown	
314 Bear Lodge Co.	---	---	---	---	---	Shutdown	
315 Bear Lodge Co.	---	---	---	---	---	Shutdown	
316 Bear Lodge Co.	---	---	---	---	---	Shutdown	
317 Bear Lodge Co.	---	---	---	---	---	Shutdown	
318 Bear Lodge Co.	---	---	---	---	---	Shutdown	
319 Bear Lodge Co.	---	---	---	---	---	Shutdown	
320 Bear Lodge Co.	---	---	---	---	---	Shutdown	
321 Bear Lodge Co.	---	---	---	---	---	Shutdown	
322 Bear Lodge Co.	---	---	---	---	---	Shutdown	
323 Bear Lodge Co.	---	---	---	---	---	Shutdown	
324 Bear Lodge Co.	---	---	---	---	---	Shutdown	
325 Bear Lodge Co.	---	---	---	---	---	Shutdown	
326 Bear Lodge Co.	---	---	---	---	---	Shutdown	
327 Bear Lodge Co.	---	---	---	---	---	Shutdown	

